

CAD Design Mechanical Specialist

CAD design mechanical specialists are the critical link between innovation and product development. In this program you'll use computers and creativity to design scale or full-size blueprints of a variety of specialty items, such as furniture and automobile body or chassis components. Specialists in this field create detailed designs for a variety of mechanical equipment. To do this, you'll learn how to review and analyze specifications, sketches, engineering drawings, ideas and related design data to determine factors affecting component designs. Your work in this field can help engineers detect changes or potential flaws in designs prior to developing prototypes.

How You'll Learn Hands-On

Get out of the classroom and into the real world with projects such as:

- Creating 3D models of products that you design
- Collaborating with students in Product Development and Machining to take an idea from art to part

Where it Can Take You

Use the skills you'll learn in this program to find a career you'll love. Possibilities include:

- Mechanical Designer
- AutoCAD Specialist
- Product Engineer
- Entrepreneur

What You'll Learn

Course	Hours
Fundamentals of Computer Aided Drafting & Design	120
Drawing & Document Management	45
Principles of CAD Design	165
Engineering Computer Aided Drafting and Design	120

Advanced Presentation Graphics Animation	120
Manufacturing Computer Aided Drafting & Design	120
CAD Mechanical Level I	60
CAD Mechanical Level II	60
CAD Mechanical Level III	60
CAD Mechanical Level IV	120
CAD Mechanical Level V	120
Workforce Staging	30
Total	1,140

Career Readiness Certificate

[WorkKeys®](#), an assessment tool from the ACT® organization, measures skills employers have identified as critical to job success in their industry and are used in hiring and promoting employees. Students are able to earn the ACT®-issued [National Career Readiness Certificate](#) by meeting the score requirements for their job field on three WorkKeys® assessments.

Matching the right employees with the right job creates employee job satisfaction, increased self-confidence and the best wages possible for the employee. The employer benefits with reduced turnover and training, increased productivity and overall company success. To learn about the WorkKeys® scores needed for your future career field visit [Job Profiles](#).

The required WorkKeys scores for this career major are:

Applied Math - 4

Workplace Documents - 4

Graphic Literacy - 4

Graduation Requirements

In order to be successful in a career, students will need to meet all technical and academic standards related to their career of choice at Meridian. Meridian offers rigorous programs of study designed in cooperation with business and industry to ensure students are fully prepared for the demands of the workplace.

Meridian's Career Ready Credential

When a student completes all standards as set forth in their program of study, they will be considered a graduate of Meridian and receive the Career Ready Credential. Students who do not meet these standards will not be considered graduates of Meridian. Students should have:

- Completed all courses in a career major with a grade of "C" or above and achieved required industry-based certifications for the career major
- Achieved WorkKeys® scores at or above the level required for the career major or earned an ACT® composite score of 19 or greater (Students may substitute equivalent scores on SAT, ACCUPLACER or other approved assessments.)

Additional Endorsements

Students earning a Career Ready Credential may also earn the Postsecondary Ready Endorsement, Citizenship Ready Endorsement and the National Career Readiness Certificate (CRC).

Postsecondary Ready Endorsement

- Earned, or was on track to earn, a high school diploma or GED at the time of Meridian graduation
- Achieved a subscore of 19 or greater on the ACT® in math, English, reading and science (Students may substitute equivalent scores on SAT, ACCUPLACER or other approved assessments.)

Citizenship Ready Endorsement

- Completed employment profile, résumé, job application, cover letter, mock interview and job search training through OKJobMatch.com
- Documented active membership in a [CareerTech Student Organization](#) or professional association related to the program of study
- Documented 20 hours of volunteerism or service in a community activity

National Career Readiness Certificate (CRC)

- Completed WorkKeys® assessments in Applied Mathm Workplace Documetns and Graphic Literacy and received a silver, gold or platinum National [Career Readiness](#)

[Certificate](#) through the Oklahoma Department of Career and Technology Education.

Get Started

Apply for [admission as a high school student](#). Apply for [admission as an adult](#). Contact the Career Planning Center with questions at [405.377.3333](tel:405.377.3333).